



**Permawick Company**  
 3110 Permawick Drive, Columbus, Indiana 47201  
 Phone: 812-376-0703 • Fax: 812-372-1410  
 sales@permawick.com  
 www.permawick.com

PD 420-PP-820  
 REV. # 2  
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## 420-PP-820

### LUBRICANT FOR SINTERED METAL BEARINGS

#### **DESCRIPTION**

PERMAWICK 420-PP-820 is an API category SM lubricant combined with engineered fiber and formulated to provide superior performance for sleeve bearings. Solvent extracted and hydrotreated base stocks were selected to give greater oxidation stability and a higher viscosity index. Special oxidation inhibitors have been added to counteract varnish and sludge formation while select anti-wear additives protect against rust, corrosion and wear.

PERMAWICK 420 OIL carries greater loads under a wider temperature range than any other product and is considered the "INDUSTRY STANDARD" for bearing lubrication during demanding conditions.

#### **PRODUCT FEATURES**

- Extremely long life
- Excellent gear and bearing wear protection
- Low Ash
- Shear stable
- Superior low temperature fluidity properties
- Continued protection during periods of high temperature operation
- Useful temperature range: -20 to 100°C.
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#### **PERFORMANCE TEST**

#### **METHOD**

#### **TYPICALS**

Specific gravity	D1298	0.867
Color	D1500	Amber
Flash Point, °C	D92	220
Pour Point, °C	D97	-40
Viscosity, cSt	D445	
40°C		89.72
100°C		13.02
Viscosity Index	D2270	144
Neutralization Number, mg KOH/gm.	D664	2.66
Total Base number	D974	6.05
Copper Strip Corrosion	D130	
3 hours @ 100°C		1a
Evaporation Loss, %	D972	
22 hours @ 210 deg F		1.0 max
Falex EP	D3233 (b)	1500
CCS@-20°C mPa.s	D5293	4050

#### **PERMAWICK BLEND**

#### **METHOD**

#### **TYPICALS**

Fiber content (Weight)	In-house	17% – 19%
Oil Content (weight)	In-House	81% - 83%
Moisture Content	D95	<1.6%

**The World Leader in Fractional Horsepower Motor Lubrication**